WHAT IS CLAIMED IS:

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1. A nonwoven formed from a plurality of fibers needled into an integral web having an x-axis, an y-axis, and an z-axis, wherein said fibers are

- 5 needled at an angle from the z axis in the x-z plane, and wherein the fibers forming said nonwoven include low melt semi-crystalline polyester sheath fibers and higher melt polyester fibers.
 - 2. The nonwoven according to Claim 1, wherein the angle that the fibers are needled is from about 30° to about 60° from the z-axis.
- 10 3. The nonwoven according to Claim 1, wherein the angle that the fibers are needled is about 45° from the z-axis.
 - 4. The nonwoven according to Claim 1, wherein the fibers forming said nonwoven comprise synthetic polymeric fibers.
- The nonwoven according to Claim 6, wherein the sheath of the low
 melt semi-crystalline polyester sheath fibers has a melting point of from a bout
 130°C to about 165°C.
 - 6. The nonwoven according to Claim 1, wherein the fibers forming the nonwoven comprise fibers having a denier per filament of from about 1 to about 20.
- 7. The nonwoven according to Claim 1, wherein the fibers forming the nonwoven comprise fibers having a denier per filament of from about 3 to about 18.
 - 8. The nonwoven according to Claim 1, wherein the fibers forming the nonwoven comprise fibers having a staple length of from about 1 inches to about 4 inches.

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9. The nonwoven according to Claim 1, wherein the fibers forming the nonwoven comprise fibers having a staple length of from about 1.5 inches to about 3.0 inches.

- 10. The nonwoven according to Claim 1, wherein the fibers forming the nonwoven are also needled parallel to the z axis.
 - 11. A method of forming a nonwoven comprising the steps of: blending a plurality of core/sheath fibers with a plurality of matrix fibers; layering a web of the blended fibers into a planar shape having an x-axis, an y-axis, and an z-axis;
- needling the web of fibers at an angle to the z-axis in the x-z plane such that an integral mat is formed.
 - 12. The method according to Claim 11, wherein the step of needling the web of fibers at an angle includes the angle being from about 30° to about 60° from the z-axis in the x-z plane.
- 15 13. The method according to Claim 11, wherein the step of needling the web of fibers at an angle includes the angle being about 45° from the z-axis in the x-z plane.
 - 14. The method according to Claim 11, wherein the step of needling the web of fibers includes also needling the fibers substantially parallel to the z axis of the web.
 - 15. The method according to Claim 11, wherein the sheath of the core/sheath fibers comprise a low melt semi-crystalline polyester.

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16. The method according to Claim 15, further including the step of molding the needled web of fibers into a molded component part with the application of heat and pressure.